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ENZYME

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NiceZyme View of ENZYME: EC 4.2.1.84

Official Name

Nitrile hydratase.

Alternative Name(s)

Nitrilase.

Nitrile hydro-lyase.

Reaction catalysed

An aliphatic amide \rightleftharpoons a nitrile + H₂O

Comment(s)

- Acts on short-chain aliphatic nitriles, converting them into the corresponding acid amides.
- Does not act on these amides or on aromatic nitriles (cf. EC 3.5.5.1).

Cross-references

BRENDA 4.2.1.84

PUMA2 4.2.1.84

PRIAM enzyme-specific profiles 4.2.1.84

KEGG Ligand Database for Enzyme Nomenclature 4.2.1.84

IUBMB Enzyme Nomenclature 4.2.1.84

IntEnz 4.2.1.84

MEDLINE Find literature relating to 4.2.1.84

MetaCyc 4.2.1.84

P21219, NHAI1_RHORH; F29378, NHA2_RHORH; P27764, NHAA_PSECL;

P97051, NHAA_PSEPU; Q7SID2, NHAA_PSETH; P13448, NHAA_RHOER;

Q53118, NHAA_RHOSO; P27763, NHAB_PSECL; P97052, NHAB_PSEPU;

Q7SID3, NHAB_PSETH; P13449, NHAB_RHOER; Q53117, NHAB_RHOSO;

P21220, NHBI1_RHORH; P29379, NHBI2_RHORH;

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All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

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